



CLAIMS

Claim 5 (New) A disomic cell line derived from trisomic embryos.

Claim 6 (New) A stem line derived from said disomic cell lines of claim 5.

Claim 7 (New) A method of producing disomic cell lines consisting of the steps of:

- a) culturing trisomic embryos onto mouse feeder cells consisting of mouse embryonic fibroblast cells (ATCC-STO) said mouse embryonic fibroblast cells having been previously mitotically inactivated by mitocimin C in gelatin-tissue culture dishes;
- b) maintaining said mouse feeder cells using Dulbecco's Modified Eagle Medium (DMEM) without sodium pyruvate, glucose 4500 mgL-1 supplemented with 20% fetal bovine serum, 0.1 mM -mercaptoethanol, 1% non-essential amino acids, 1 mM L-glutamine, 50 units ml L-1 penicillin;
- c) supplementing said medium with human recombinant Leukemia Inhibitory factor at 2000 units mL-1 and bFGF 4 ng/ml;
- d) culturing said embryos in said medium until day 12;
- e) fixing and analyzing by FISH said embryonic cell lines;
- f) identifying and isolating disomic cell lines within said embryonic cell lines wherein disomic cell lines are produced.

Claim 8 (New) A method of claim 7 wherein stem cell lines are isolated from said disomic cell lines.